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May 6, 2008

FACSIMILE COVER SHEET

CONFIDENTIAL

To: U.S. Patent Office

Fax No.: 571-273-8300

From: Alexandra Caluen for Tong J. Lee

Attn: Tod Thomas Van Roy
Art Unit: 2828

Re: US Application No. 10/726,141
Our Ref.: 3364.P155

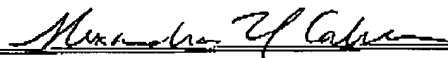
Correspondence Attached: Applicant Initiated Interview Request

Total Pages: (including cover page) 3

CERTIFICATE OF MAILING/TRANSMISSION (37 CFR 1.8A)

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Alexandra Y. Caluen



May 6, 2008

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10/726,141

Attorney's Docket No. 3364P155 MAY 06 2008

PROPOSED AMENDMENTS

1. (Currently Amended) A self-mode locked multi-section semiconductor laser diode, for generating high-frequency optical pulsation and controlling the pulsation frequency, comprising:

a complex-coupled DFB laser section that maintains a specific single mode oscillation independent of a phase variation of feedback laser light, the complex-coupled DFB laser section that includes including a complex-coupled grating and an active structure for emitting laser light in a longitudinally single mode, where the intensity of oscillating laser light is controlled by means of the current injected to the complex-coupled DFB laser section; and

an external cavity including a phase control section and an amplifier section for controlling the phase and strength of the laser light fed back to the complex-coupled DFB laser section after round-trip through the phase control section and the amplifier section by means of the currents injected into the phase control section and the amplifier section, the phase control section having a guiding layer as a passive waveguide that controls ~~[[a]]~~ the phase variation of the feedback laser light, the amplifier section having an active structure that controls the strength of the feedback laser light, the DFB laser section and the external cavity being monolithically integrated on a single substrate, current being independently injected into each of the sections, wherein the multi-section semiconductor laser diode outputs high-frequency optical pulsation according to self mode-locking of compound cavity modes, and the phase and strength of the feedback laser light can be adjusted to vary the pulsation frequency in a wide range.